EMC TEST REPORT

COMPANY: Waring Products Division of Conair Corp.
314 Ella T. Grasso Avenue
Torrington, CT 06790

Contact: Mr. Dan Sanders

PRODUCT: Blender, Models: MX1000XT, MX1050XT MX1100XT, MX1200XT, MX1300XT, and MX1500XT

REPORT No: 3109178NYM-005

REVIEWED BY: William Wack

PREPARED BY: Anatoly Getman

DATE: December 21, 2006 **TOTAL PAGES: 42**

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1.0 JOB DESCRIPTION

Equipment: Blender, Models: MX1000XT, MX1050XT MX1100XT, MX1200XT, MX1300XT, and MX1500XT

Model Similarity: Models MX1000XT, MX1050XT and MX1100XT use same type of motor. The MX1000XT is the simpliest manually operated model, the models MX1050XT and MX1100XT have similar electrical schematic the differens is that model MX1100XT has additional 2-digit display on the front panel. Model MX1100XT was choosen for testing. Models MX1300XT and MX1500XT are electrically similar but model MX1500XT is provided with additional noise reduction plastic cover. Model MX1500XT was choosen for testing.

Voltage/Phase: 230 V, 50 Hz

The following three models were tested: MX1100XT, MX1200XT, MX1500XT

Equipment Serial No: NYM0604261055-001, NYM0612060812-001, and NYM0612060812-002

Customer: Waring Products Division of Conair Corp.

Test Standards: EN61000-6-3:2001 – Emission standard for residential, commercial and light-industrial environments

EN61000-6-1: 2001 – Immunity for residential, commercial and light-industrial environments

EN 61000-3-2: 2001 - Electromagnetic compatibility Part 3. Limits Section 2. Limits for harmonic current emissions (equipment input current ≤16 A per phase)

EN 61000-3-3: 1995 - Electromagnetic compatibility Part 3. Limits Section 3. Limits of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current ≤16 A

Date Sample Submitted: 12/08/06

Test Work Started: 12/11/06

Test Work Completed: 12/15/06

2.0 TEST SUMMARY

Referring to the performance criteria and the operating mode during the tests specified in this report, the equipment complies with the requirements according to the following standards:

Test Standard	Test	Comments
EN61000-6-3	Emissions	Pass (Class A*)
EN61000-6-1	Immunity	Pass
EN 61000-3-2	Harmonics Emissions	N/A
EN 61000-3-3	Voltage Flicker	N/A

Where comments other than "Pass" are entered in the comments column, further details may be found in the TEST RESULTS section.

2.1 Emissions test results (see Appendix I)

2.1.1 Radiated Emissions Test Results

No modifications were installed on the units during the radiated emissions testing.

2.1.2 Conducted Emissions Test Results

No modifications were installed on the units during the conducted emissions testing.

2.1.3 Harmonic Current Emissions Test Results

Kitchen machines as listed in the scope of IEC 60335-2-14 are deemed to conform to the harmonic current limits of the standard EN 61000-3-2 without further testing. Blenders are included in the list of kitchen equipment in IEC 60335-2-14.

2.1.4 Voltage Flicker Test Results

Time of operation specified in the User's Manual is 1-min. Minimum time required for Pst measurement specified in the standard EN 61000-3-3 is 10 minutes, for Plt – 2 hours.

*Note: The Standard EN 55022 states: Class A equipment should not be restricted in sale but the following warning shall be included in the instructions for use:

Warning - This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

REVISION SUMMARY - The following changes have been made to this Report:

Date	Project #	Project Handler	Page	Item	Description of Change	Approval
12/21/06	3109178	A. Getman	Title, 3	Product	Added models MX1000XT, MX1050XT, MX1300XT	W. Wack
12/21/06	3109178	A. Getman	3	Model Similarity	Added Model Similarity	W. Wack

2.2 Immunity Test Results (See Appendix I)

Standard: EN 61000-4-2 Performance criteria: **B**
Test: Electrostatic discharge Temp(22°C)/RH(40%)/Barometric pressure(1008 mb)

Parameters	Results	Modifications
±2, ±4 kV contact discharge - No accessible conductive parts of enclosure	N/A	
±2, ±4 kV contact discharge VCP and HCP	Pass	None
±2, ±4, ±8 kV air discharge - Non-conductive parts of enclosure	Pass	None
±2, ±4, ±8 kV air discharge – Power cord	Pass	None

Note: No signs of susceptibility.

Standard: EN 61000-4-3 Performance criteria: **A**
Test: RF electromagnetic field Temp. (23°C)/RH(44%)/Barometric pressure(1000 mb)

Parameters	Results	Modifications
80-1000 MHz, 3 V/m, 80% (1kHz)	Pass	None

Note: No signs of susceptibility.

Standard: EN 61000-4-4 Performance criteria: **B**
Test: Fast transients Temp. (22°C)/RH(40%)/Barometric pressure(1008 mb)

Parameters	Results	Modifications
1 kV, 5/50 Tr/Th ns, 5 kHz to AC lines	Pass	None
0.5 kV, 5/50 Tr/Th ns, 5 kHz to I/O lines	N/A	

Note: No signs of susceptibility.

Standard: EN 61000-4-5 Performance criteria: **B**
Test: Surge Temp. (21°C)/RH(42%)/Barometric pressure(1013 mb)

Parameters	Results	Modifications
1.2/50 µs, 2000 V – Line to PE	Pass	None
1.2/50 µs, 1000 V – Line to Line	Pass	None

Note: No signs of susceptibility

.

Standard: EN 61000-4-6 Performance criteria: **A**
Test: Radio-frequency common mode Temp. (23°C)/RH(44%)/Barometric pressure(1000 mb)

Parameters	Results	Modifications
0.15-80 MHz 3 V(rms), 80% AM (1 kHz) to AC or DC power lines	Pass	None
0.15-80 MHz 3 V(rms), 80% AM (1 kHz) to I/O lines	N/A	

Note: No signs of susceptibility.

Standard: EN 61000-4-8 Performance criteria: **A**
Test: Power-frequency magnetic field Temp. (23°C)/RH(44%)/Barometric pressure(1000 mb)

Parameters	Results	Modifications
3 A(rms)/m	Pass	None

Note: No signs of susceptibility.

Standard: EN 61000-4-11 Performance criteria: **B, C**
Test: Dips and Interruptions Temp. (21°C)/RH(42%)/Barometric pressure(1013 mb)

Parameters	Results	Modifications
70% of rated voltage @ 10 mSec.	Pass	None
40% of rated voltage @ 100 mSec.	Pass	None
0% of rated voltage @ 5000 mSec.	Pass	None

Note: No signs of susceptibility.

3.0 TEST EQUIPMENT

EMC Equipment #	EMC EQUIPMENT	Manufacturer	Model Number	Serial number	Cal. Date	Cal. Due Date
TH1	4 line digital barometer	Mannix	0A BA116	INT5110	01/27/06	01/27/07
EMC-2	Amplifier - 100 Watt 1-1000 MHz	Amplifier Reasrch	100W1000	27302	NCR	NCR
EMC-5	Amplifier - Wideband RF	Kalmus	747LC-1-60-449-001	7747-1	NCR	NCR
EMC-9	Antennas - X-Wing BiLog	Schaffner	CBL6140A	1166	6/15/2006	6/15/2007
EMC-14	Coupling Decoupling Network	Schaffner	CDN M563A	15746	NCR	NCR
EMC-18	Electrical Fast Transient Burst Generator	Compliance Design	EFT/B-100	4008	8/8/2006	8/8/2007
EMC-26	Line Impedance Stabilization Network	Compliance Design	FCC-LISN-50-25-2	189	2/21/2006	2/21/2007
EMC-30	Magnetic Field Generating Loop	Fisher Custom	F-1000-4-8/9/10-L-1M	28	NCR	NCR
EMC-33	Magnetic field Probe	Holaday	3627	91137	10/30/2006	10/30/2007
EMC-34	Magnetic Field Test Generator	Fisher Custom	F-1000-4-8-G	28	NCR	NCR
EMC-41	RF Power Meter	Boonton	4231A	36701	6/15/2006	6/15/2007
EMC-43	Signal Generator	Hewlett Packard	8648B	3642U00875	1/26/2006	1/26/2007
EMC-44	Signal Generator	IFR	2023B	202302/165	2/28/2006	2/28/2007
EMC-45	Spectrum Analyzer	Hewlett Packard	8591EM	3639A00943	10/23/2006	10/23/2007
EMC-46	Surge - Generator	Compliance Design	M5	004150	3/13/2006	3/13/2007
EMC-58	Back Filter	Compliance Design	3CN	4003	3/13/2006	3/13/2007
EMC-78	Pre-Amp - 16 dB	Compliance Design	P950	3331	7/7/2006	7/7/2007
EMC-79	ESD Simulator	Schaffner	NSG 438	609	7/19/2006	7/19/2007

4.0 TEST CONFIGURATION (see Appendix II)

4.1 Support Equipment/Services

N/A

4.2 Sample Set-Up

EUT was powered at 230 V, 50 Hz and set up in most common operation.

4.3 Mode(s) of Operation:

Mode of operation specified in the User's Manual 1 min. ON / 3 min. OFF when loaded with 2 Liters working capacity. The EUT was loaded with 0.5 liter of water and placed into a continuous cycle.

4.4 Monitoring of Sample

The EUT was monitored by the test engineer.

4.5 Sample Performance Criteria

The performance criteria are based on the test standards with the manufacturer's specific recommendations.

Criterion A: Any performance degradation outside the specifications of the sample, during the test, would be deemed a failure. *No stopping or unexpected start of the blender is permitted during the test*

Criterion B: Degradation in performance is allowable during the test, provided the sample recovers afterwards without operator intervention, and with no loss of stored data. Stopping of the blender is permitted during the test, after the test blender shall continue to operate as intended.

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5.0 TEST PROCEDURES

5.1 Emissions Testing

5.1.1 Radiated and Conducted Emissions Testing

The sites used for CISPR testing are a three-meter indoor and 10 & 30 meter open site. The three meter site is a Panashield fully anechoic chamber. The chamber has been tested to show conformance with the site attenuation requirements of the CISPR standards.

Measurements for this unit was conducted in the 3 meter anechoic chamber.

Measurements are taken with Schaffner's X-Wing BiLog antenna which has been correlated to dipoles from 30 MHz to 2000 MHz. The mast to support the antennas is capable of a 1 meter to 4 meter height range, which meets CISPR requirements. The antenna mast is non-conductive and remote-controllable.

Since radiated emissions, and, to a lesser extent, conducted emissions, are a function of cable placement, the cable placement is varied to encompass all configurations that an end user would encounter to determine the configuration resulting in maximum emissions. At least one cable for each I/O port type is attached to the EUT. If peripherals or modules are available, at least one of each available type is installed and noted in the report.

Generally, only one of each type is used, unless good engineering judgment dictates that the use of more will affect emission levels. Excess cable lengths are arranged into a 30 x 40 cm bundle. Cables requiring non-standard lead dress are recorded in the report.

For conducted emissions testing the equipment is moved to an insulated platform over the ground plane and the EUT is powered from the LISN. Both sides of the AC line are measured and the results are compared to the applicable limits. Measurements are taken using CISPR quasi-peak and average detectors when the peak reading approaches or exceeds the average limit. Only quasi-peak readings are taken when the EUT's emissions meet the average limit as measured with the quasi-peak detector.

5.1.2 EN 61000-3-2/-3-3, Harmonics and Flicker Testing

The EUT is placed on a non-conductive surface at least 0.8 meters from a ground plane. The test duration, is dependant on the cycle time of the EUT. During the harmonic current tests the duration is at least 10 minutes. During the flicker tests the short term flicker measurements occur at a 10 minute interval for a maximum of one cycle of the EUT or 2 hours, whichever comes first. If the EUT does not have a specific cycle then the EUT is operational for 2 hours.

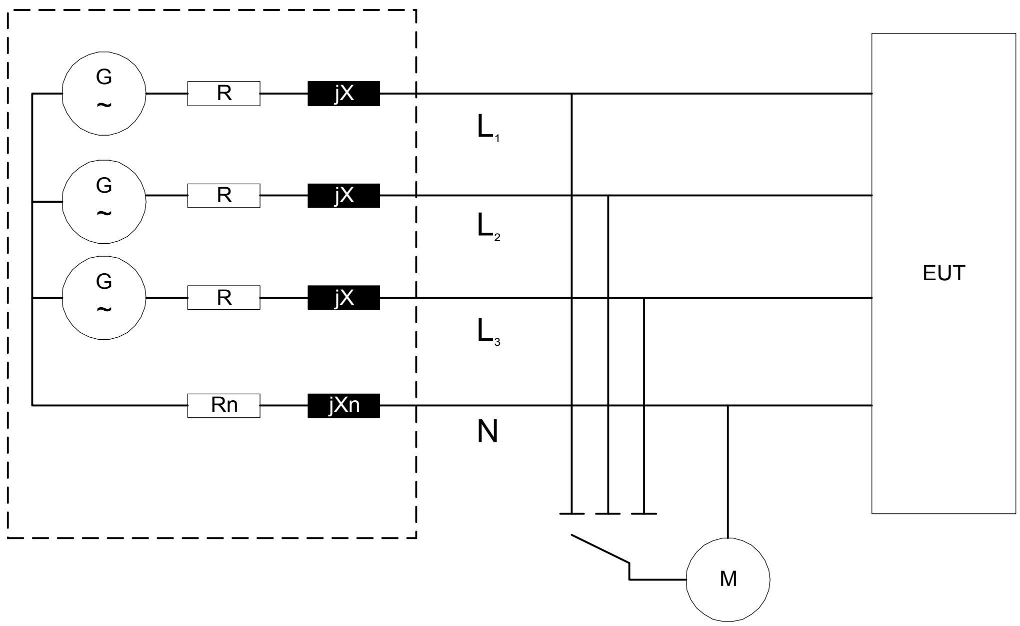

Figure 5.1.2 Harmonic and Flicker Testing Configuration

5.2 Immunity Testing

5.2.1 EN 61000-4-2, Electrostatic Discharge Susceptibility

Figure 5.2.1 shows the testing configuration. The ESD test level was set and discharges were applied to the conductive surface under the test sample, and along all seams and control surfaces on the test sample. If a discharge occurred, and an error was caused, the type of error, discharge level and location were recorded, please see Section 2.2 for discharge locations.

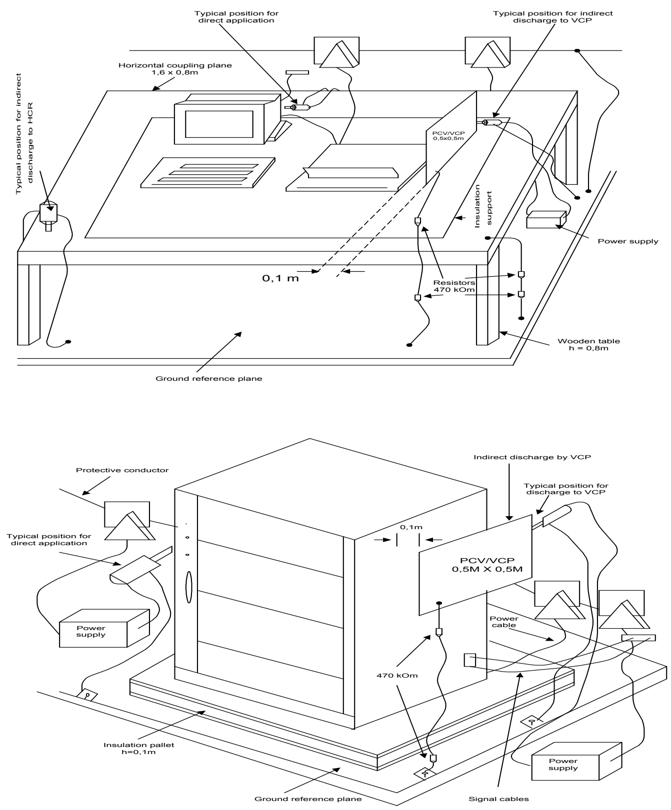

Figure 5.2.1 ESD Testing Configuration

5.2.2 EN 61000-4-3, Radiated Susceptibility-Electric Field

Figure 5.2.2 shows the testing configuration. The test sample was set into operation and then monitored for variations in performance. The RF test signal was set by a P.C. controlled process, called *TILE!,* that automated the signal power leveling for field uniformity as the test signal was swept through the testing range. If an error was detected during testing, the field strength was manually reduced until the error corrected then increased until the error began to occur again. This RF level, the frequency, and the error effects created were hence noted before continuing. The procedure was then repeated in the opposite antenna polarity. All sides of the unit were tested.

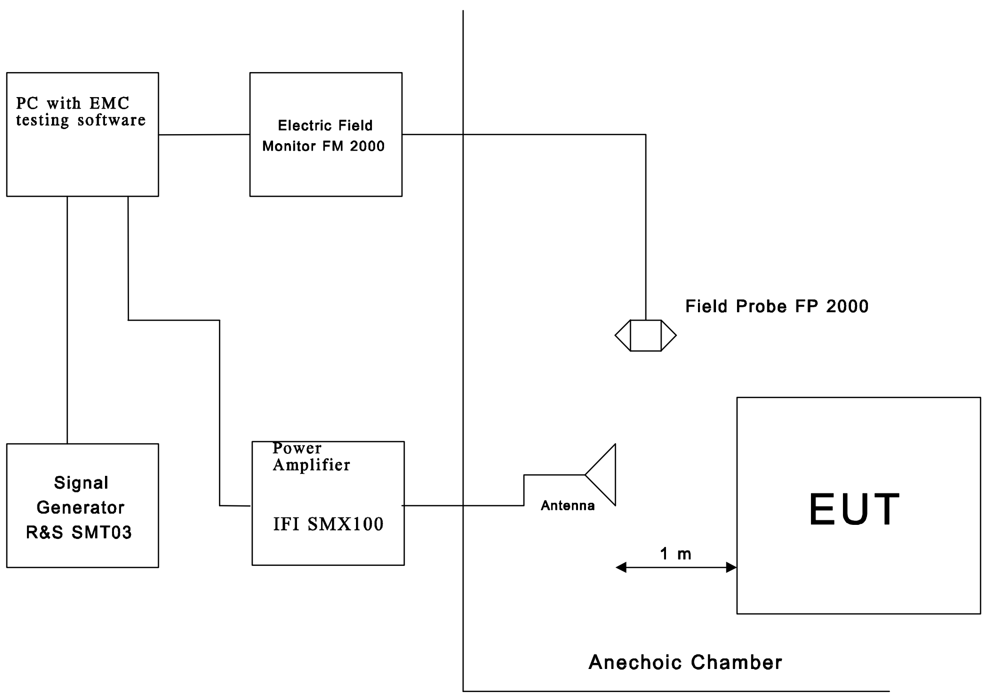

Figure 5.2.2 Radiated RF Immunity Test Configuration

5.2.3 EN 61000-4-4, Conducted Transients Susceptibility

The test sample was connected to the test equipment, as shown in Figure 5.2.3, and monitored for performance. The test level was set, and the test signal was applied for the required time to one side of the line (L). When an error occurred, the test level was reduced until the error recovered and then increased until the threshold level was reached. This threshold and the error conditions were noted. This procedure was then repeated while injecting into Neutral (N) ground and then to L and N together. Using a capacitive coupling plate, as called out in EN 61000-4-4, the procedure was then repeated on signal and I/O lines whenever this was applicable.

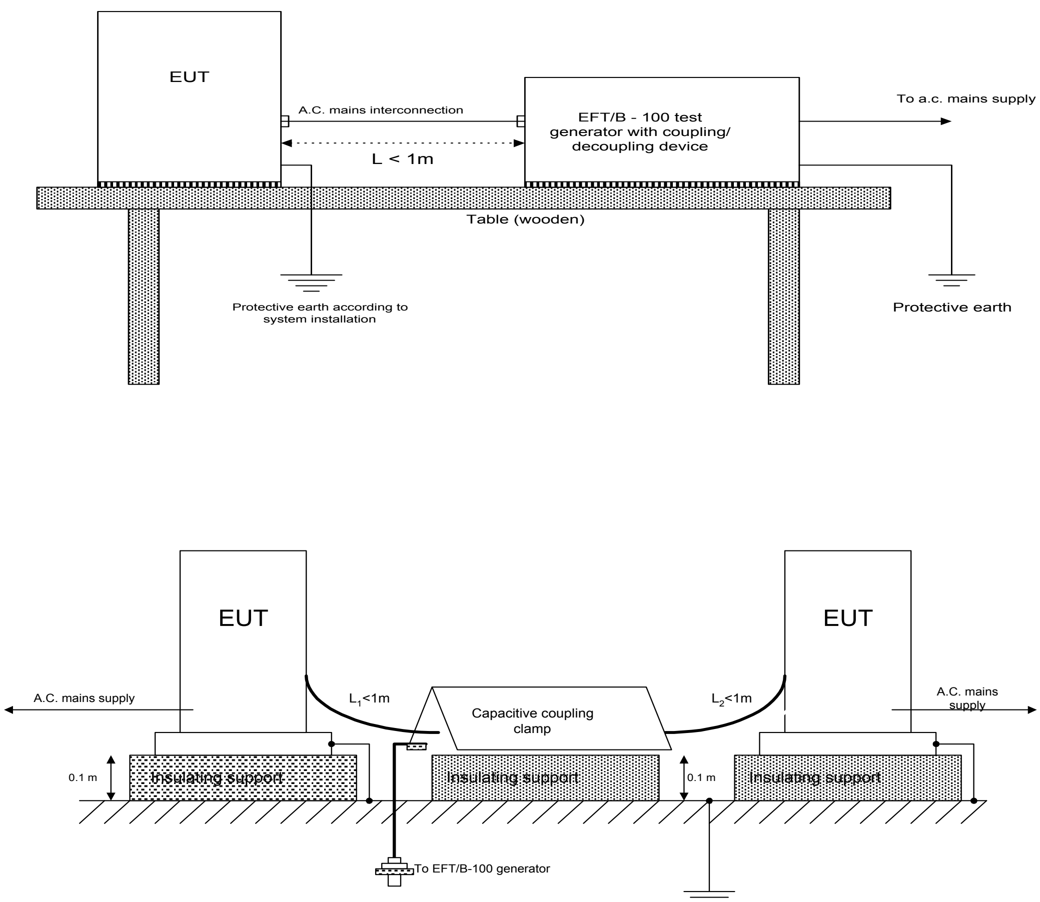

Figure 5.2.3 Conducted Susceptibility Test Configuration

5.2.4 EN 61000-4-8, Magnetic Field Susceptibility

Figure 5.2.4 shows the testing configuration. A calibration was performed before testing was started with a magnetic field sensor. A standard coil (1 meter in diameter) was placed around the EUT at a minimum distance of 10 cm. The induced magnetic field was monitored via a magnetic field sensor placed in the center of the test loop. The output current necessary to generate the proper field in each configuration was then recorded. The EUT was positioned in the loop, as shown in Figure 5.2.5, and the EUT's performance was monitored. The calibrated output current was set and the test signal applied in each of the X, Y, and Z plains. If the EUT malfunctioned while exposed to the magnetic field, the magnetic field intensity was reduced until the system recovered and then increased until the threshold level was reached. This threshold, and the error conditions, were noted.

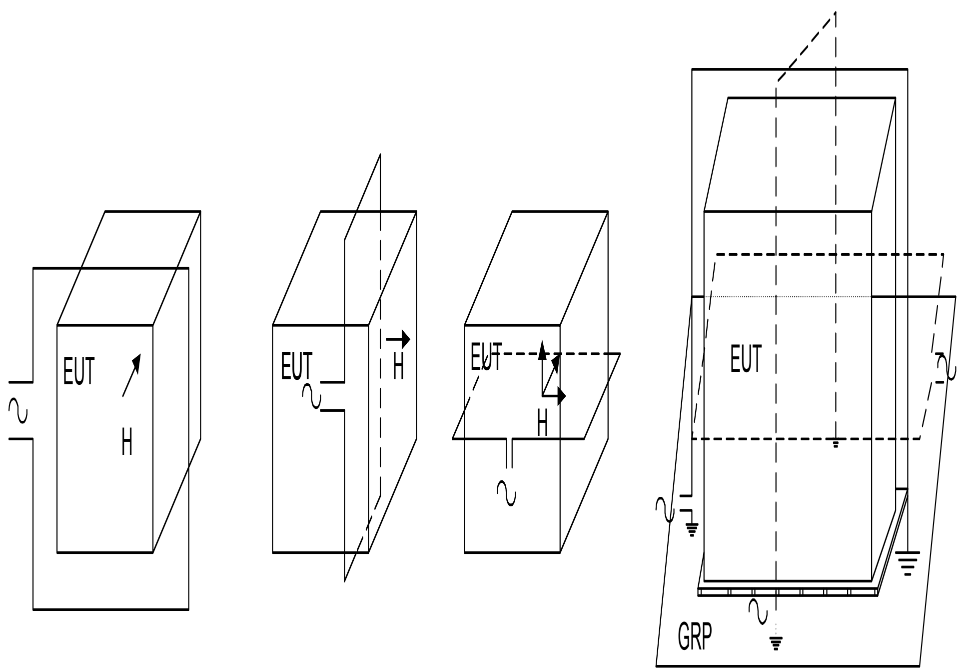

Figure 5.2.4 Magnetic Field Susceptibility Testing Configuration

5.2.5 EN 61000-4-6, Conducted Disturbances Induced by Radio-Frequency Fields

Figure 5.2.5 shows the testing configuration. The test field was calibrated for field uniformity verifications using calibration fixtures. RF energy from a power amplifier was coupled to one of two types of coupling devices (a CDN or an EM Clamp), and their output is connected to the RF power meter. The frequency range was swept incrementally from 150 kHz to 80 MHZ with a step size of 1% and, when the desired test voltage level was attained, that drive level was saved in the file. In the test mode, the stored voltage levels at each frequency were regenerated with a modulation depth of 80% (1kHz sine wave) while the EUT was monitored for failures.

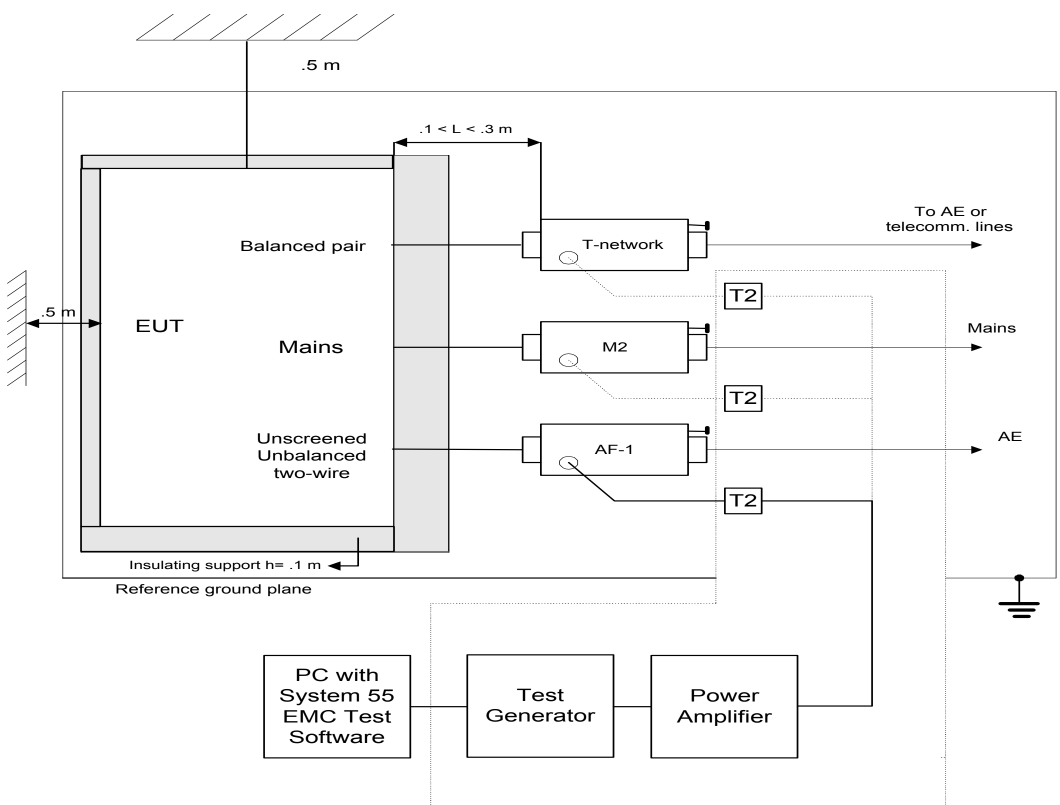

Figure 5.2.5 Conducted RF Susceptibility Testing Configuration

5.2.6 EN 61000-4-5, Power Line Conducted Surge Susceptibility

The test sample was connected to the test equipment, as shown in Figure 5.2.6, and monitored for performance. The test level was set and the test signal was applied between one side of the line (L1) and ground. When an error occurs, the test level is reduced until the error recovers and then increased until the threshold level is reached. This threshold and the error conditions were noted. If no error was detected, the injected voltage was increased to the next test level. This procedure was then repeated while injecting into line 2 (L2). The pulse was then applied between L1 and L2 and again in common mode from both lines-to-ground.

Five pulses in each polarity (±), at each voltage level (0.5, 1, 2 kV) were applied in each configuration (L1-PE, L2-PE, L1/L2-GND) and voltage level (0.5, and 1 kV were applied in L1-L2 configuration. Each pulse was spaced approximately 30 seconds apart.

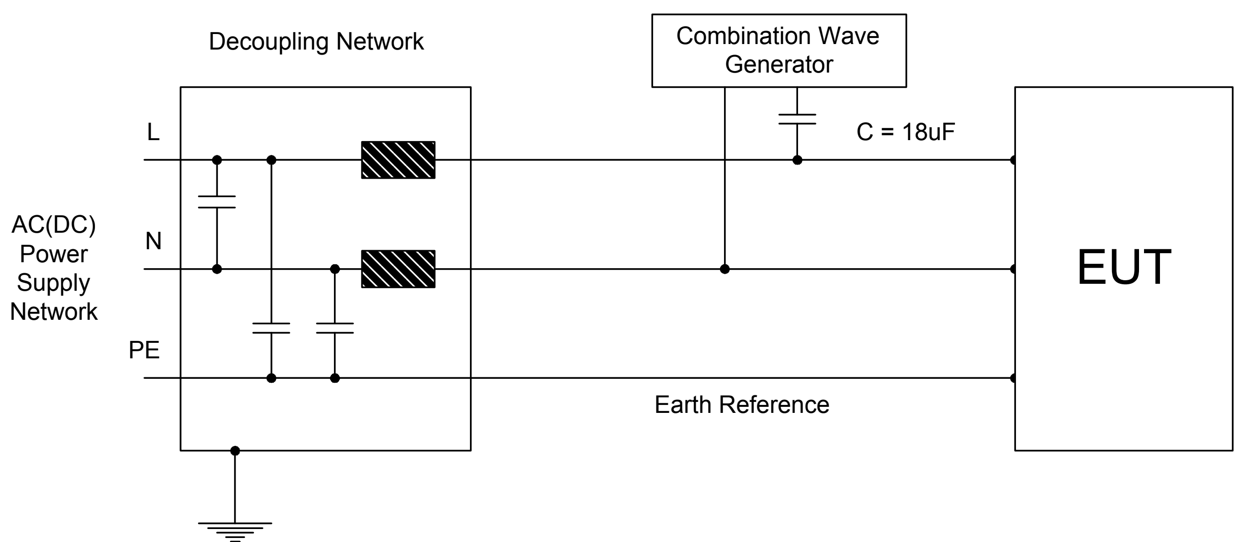

Figure 5.2.6 Power Line Conducted Surge Susceptibility

5.2.7 EN 61000-4-11 Voltage Dips and Interruptions

The test sample was connected to the test equipment, as shown in Figure 5.2.7, and monitored for performance. The EUT shall be tested for each selected combination of test level and duration with a sequence of three dips/interruptions with intervals of 10 seconds minimum between each event. Each representative mode of operation shall be tested.

For three-phase systems, phase-by-phase test is preferred. In certain cases e.g. three-phase meters and three-phase power-supply equipment, all the three phases must be simultaneously tested. In the case of simultaneous application of dips or interruptions on all three phases, the zero crossing condition of the voltage will be fulfilled only on one phase.

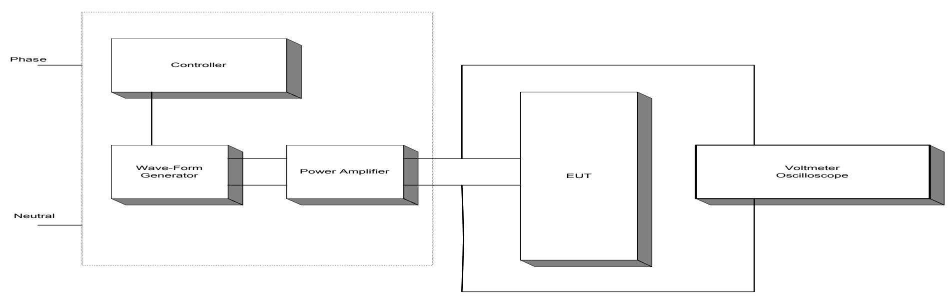

Figure 5.2.7 Power Line Voltage Drops and Interrupts Susceptibility

APPENDIX I

EMISSIONS TEST DATA

A1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG
where FS = Field Strength in dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

FS = RR + LF
where FS = Field Strength in dBμV/m
RR = RA - AG in dBμV
LF = CF + AF in dB

Sample calculation:

Assume a receiver reading of 52.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 52.0 dBμV	
AF = 7.4 dB	RR = 23.0 dBμV
CF = 1.6 dB	LF = 9.0 dB
AG = 29.0 dB	
FS = RR + LF	
FS = 23 + 9 = 32 dBμV/m	

Level in μV/m = Common Antilogarithm [(32 dBμV/m)/20] = 39.8 μV/m

Table 1 - Radiated Emissions: 30-1000 MHz

MX1500XT

Frequency	Polarization	Quasi-Peak	Attenuation Factor (AF)	Quasi-Peak + AF	Limit	Margin
					Class B	
MHz		dBuV	dB	dBuV/m	dBuV/m	dB
30.21	V	54.7	-11.8	42.9	40	2.9
33.33	V	55.2	-9.6	45.6	40	5.6
47.18	V	44.8	-7.6	37.2	40	-2.8
58.76	V	45.5	-7.2	38.3	40	-1.7
84.78	V	49.8	-9.9	39.9	40	-0.1
87.64	V	56	-9.7	46.3	40	6.3
91.05	V	55.1	-9.2	45.9	40	5.9
112.8	V	40.9	-8.7	32.2	40	-7.8
144.2	V	35.1	-8.1	27	40	-13
199.1	V	29.3	-5.3	24	40	-16
363.4	V	26.2	0.4	26.6	47	-20.4
581.2	V	24.4	4.6	29	47	-18
748.6	V	23.2	7.1	30.3	47	-16.7
954.3	V	21.6	9.5	31.1	47	-15.9

Frequency	Polarization	Quasi-Peak	Attenuation Factor (AF)	Quasi-Peak + AF	Limit	Margin
					Class A	
MHz		dBuV	dB	dBuV/m	dBuV/m	dB
30.21	V	54.7	-11.8	42.9	50	-7.1
33.33	V	55.2	-9.6	45.6	50	-4.4
47.18	V	44.8	-7.6	37.2	50	-12.8
58.76	V	45.5	-7.2	38.3	50	-11.7
84.78	V	49.8	-9.9	39.9	50	-10.1
87.64	V	56	-9.7	46.3	50	-3.7
91.05	V	55.1	-9.2	45.9	50	-4.1
112.8	V	40.9	-8.7	32.2	50	-17.8
144.2	V	35.1	-8.1	27	50	-23
199.1	V	29.3	-5.3	24	50	-26
363.4	V	26.2	0.4	26.6	57	-30.4
581.2	V	24.4	4.6	29	57	-28
748.6	V	23.2	7.1	30.3	57	-26.7
954.3	V	21.6	9.5	31.1	57	-25.9

Table 2 - Radiated Emissions: 30-1000 MHz

MX1200XT

Frequency	Polarization	Quasi-Peak	Attenuation Factor	Quasi-Peak	Limit	Margin
			(AF)	+ AF	Class B	
MHz		dBuV	dB	dBuV/m	dBuV/m	dB
31.58	V	57.3	-11.1	46.2	40	6.2
31.91	V	56.9	-10.8	46.1	40	6.1
41.75	V	38.7	-7.8	30.9	40	-9.1
58.6	V	41.1	-7.2	33.9	40	-6.1
65.65	V	34.6	-6.8	27.8	40	-12.2
89.49	V	41.9	-9.4	32.5	40	-7.5
134.29	V	29.5	-8.1	21.4	40	-18.6
166.92	V	26.2	-6.9	19.3	40	-20.7
284.68	V	24.2	-2.9	21.3	47	-25.7
461.83	V	23.6	2.5	26.1	47	-20.9
783.52	V	24.8	6.7	31.5	47	-15.5
974.61	V	21.7	10.5	32.2	47	-14.8

Frequency	Polarization	Quasi-Peak	Attenuation Factor	Quasi-Peak	Limit	Margin
			(AF)	+ AF	Class A	
MHz		dBuV	dB	dBuV/m	dBuV/m	dB
31.58	V	57.3	-11.1	46.2	50	-3.8
31.91	V	56.9	-10.8	46.1	50	-3.9
41.75	V	38.7	-7.8	30.9	50	-19.1
58.6	V	41.1	-7.2	33.9	50	-16.1
65.65	V	34.6	-6.8	27.8	50	-22.2
89.49	V	41.9	-9.4	32.5	50	-17.5
134.29	V	29.5	-8.1	21.4	50	-28.6
166.92	V	26.2	-6.9	19.3	50	-30.7
284.68	V	24.2	-2.9	21.3	57	-35.7
461.83	V	23.6	2.5	26.1	57	-30.9
783.52	V	24.8	6.7	31.5	57	-25.5
974.61	V	21.7	10.5	32.2	57	-24.8

Table 3 - Radiated Emissions: 30-1000 MHz

MX1100XT

Frequency	Polarization	Quasi-Peak	Attenuation Factor	Quasi-Peak	Limit	Margin
			(AF)	+ AF	**Class B**	
MHz		dBuV	dB	dBuV/m	dBuV/m	dB
30.24	V	25.3	-11.8	13.5	40	-26.5
43.9	V	26.2	-9.6	16.6	40	-23.4
61.79	V	28.3	-7.1	21.2	40	-18.8
90.69	V	32.7	-9.5	23.2	40	-16.8
147	V	29.5	-8.2	21.3	40	-18.7
297.3	V	24.3	-2.8	21.5	47	-25.5
372.5	V	22.6	0.4	23	47	-24
547.9	V	20.8	4.8	25.6	47	-21.4
783.5	V	23.4	7.1	30.5	47	-16.5
974.6	V	21.6	10.4	32	47	-15

Table 4 - Conducted Emissions - 150 kHz - 30 MHz

MX1500XT

Frequency	Quasi-Peak	Average	Attenuation	Quasi-Peak +A	Average +A	Quasi-Peak	Average	Quasi-Peak	Average
(MHz)	dBuV	dBuV	(A)	dBuV	dBuV	Limit	Limit	Margin	Margin
Line 1						**Class B**			
0.157	71.9	49.3	0	71.9	49.3	65.62	55.62	6.28	-6.32
0.469	51.1	22.6	0	51.1	22.6	56.53	46.53	-5.43	-23.93
0.711	42.4	22.6	0	42.4	22.6	56.00	46.00	-13.60	-23.40
1.22	31.4	11.6	0	31.4	11.6	56.00	46.00	-24.60	-34.40
2.79	23.4	9.5	0	23.4	9.5	60.00	50.00	-36.60	-40.50
5.01	23.3	7.9	0	23.3	7.9	60.00	50.00	-36.70	-42.10
10.39	28.7	8.8	0	28.7	8.8	60.00	50.00	-31.30	-41.20
19.08	30.7	10.7	0	30.7	10.7	60.00	50.00	-29.30	-39.30
24.22	30.8	7.9	0	30.8	7.9	60.00	50.00	-29.20	-42.10
28.89	45.3	24.7	0	45.3	24.7	60.00	50.00	-14.70	-25.30
29.58	42.7	24.1	0	42.7	24.1	60.00	50.00	-17.30	-25.90
Line 2									
0.151	74.1	49.9	0	74.1	49.9	65.94	55.94	8.16	-6.04
0.34	57.3	31.3	0	57.3	31.3	59.20	49.20	-1.90	-17.90
0.648	44.5	17.2	0	44.5	17.2	56.00	46.00	-11.50	-28.80
0.872	43.8	12.9	0	43.8	12.9	56.00	46.00	-12.20	-33.10
2.67	23.1	10.5	0	23.1	10.5	56.00	46.00	-32.90	-35.50
8.06	24.4	6.1	0	24.4	6.1	60.00	50.00	-35.60	-43.90
19.22	28.2	9.9	0	28.2	9.9	60.00	50.00	-31.80	-40.10
23.39	33.3	10.3	0	33.3	10.3	60.00	50.00	-26.70	-39.70
28.54	51.1	25.1	0	51.1	25.1	60.00	50.00	-8.90	-24.90
29.74	50.1	26.6	0	50.1	26.6	60.00	50.00	-9.90	-23.40

Table 5 - Conducted Emissions - 150 kHz - 30 MHz

MX1500XT

Frequency	Quasi-Peak	Average	Attenuation	Quasi-Peak +A	Average +A	Quasi-Peak	Average	Quasi-Peak	Average
(MHz)	dBuV	dBuV	(A)	dBuV	dBuV	Limit	Limit	Margin	Margin
Line 1						**Class A**			
0.157	71.9	49.3	0	71.9	49.3	79.00	66.00	-7.10	-16.70
0.469	51.1	22.6	0	51.1	22.6	79.00	66.00	-27.90	-43.40
0.711	42.4	22.6	0	42.4	22.6	73.00	60.00	-30.60	-37.40
1.22	31.4	11.6	0	31.4	11.6	73.00	60.00	-41.60	-48.40
2.79	23.4	9.5	0	23.4	9.5	73.00	60.00	-49.60	-50.50
5.01	23.3	7.9	0	23.3	7.9	73.00	60.00	-49.70	-52.10
10.39	28.7	8.8	0	28.7	8.8	73.00	60.00	-44.30	-51.20
19.08	30.7	10.7	0	30.7	10.7	73.00	60.00	-42.30	-49.30
24.22	30.8	7.9	0	30.8	7.9	73.00	60.00	-42.20	-52.10
28.89	45.3	24.7	0	45.3	24.7	73.00	60.00	-27.70	-35.30
29.58	42.7	24.1	0	42.7	24.1	73.00	60.00	-30.30	-35.90
Line 2									
0.151	74.1	49.9	0	74.1	49.9	79.00	66.00	-4.90	-16.10
0.34	57.3	31.3	0	57.3	31.3	79.00	66.00	-21.70	-34.70
0.648	44.5	17.2	0	44.5	17.2	73.00	60.00	-28.50	-42.80
0.872	43.8	12.9	0	43.8	12.9	73.00	60.00	-29.20	-47.10
2.67	23.1	10.5	0	23.1	10.5	73.00	60.00	-49.90	-49.50
8.06	24.4	6.1	0	24.4	6.1	73.00	60.00	-48.60	-53.90
19.22	28.2	9.9	0	28.2	9.9	73.00	60.00	-44.80	-50.10
23.39	33.3	10.3	0	33.3	10.3	73.00	60.00	-39.70	-49.70
28.54	51.1	25.1	0	51.1	25.1	73.00	60.00	-21.90	-34.90
29.74	50.1	26.6	0	50.1	26.6	73.00	60.00	-22.90	-33.40

Table 6 - Conducted Emissions - 150 kHz - 30 MHz

MX1200XT

Frequency	Quasi-Peak	Average	Attenuation	Quasi-Peak +A	Average +A	Quasi-Peak	Average	Quasi-Peak	Average
(MHz)	dBuV	dBuV	(A)	dBuV	dBuV	Limit	Limit	Margin	Margin
Line 1						**Class B**			
0.158	64.5	54.6	0	64.5	54.6	65.57	55.57	-1.07	-0.97
0.191	60.9	51.9	0	60.9	51.9	63.99	53.99	-3.09	-2.09
0.304	50.1	41.3	0	50.1	41.3	60.13	50.13	-10.03	-8.83
0.75	41.3	30.1	0	41.3	30.1	56.00	46.00	-14.70	-15.90
2.08	19.2	12.2	0	19.2	12.2	56.00	46.00	-36.80	-33.80
5.65	21	10.5	0	21	10.5	60.00	50.00	-39.00	-39.50
12.69	27.7	15.2	0	27.7	15.2	60.00	50.00	-32.30	-34.80
17.39	30.2	21.2	0	30.2	21.2	60.00	50.00	-29.80	-28.80
19.17	34.2	19.4	0	34.2	19.4	60.00	50.00	-25.80	-30.60
25.45	42.3	26.8	0	42.3	26.8	60.00	50.00	-17.70	-23.20
29.61	39.2	25.3	0	39.2	25.3	60.00	50.00	-20.80	-24.70
Line 2									
0.16	65.2	53.2	0	65.2	53.2	65.46	55.46	-0.26	-2.26
0.248	54.6	44.5	0	54.6	44.5	61.82	51.82	-7.22	-7.32
0.419	43	33.2	0	43	33.2	57.47	47.47	-14.47	-14.27
0.943	25.8	16.9	0	25.8	16.9	56.00	46.00	-30.20	-29.10
1.494	31.4	26.5	0	31.4	26.5	56.00	46.00	-24.60	-19.50
1.89	26.6	19.8	0	26.6	19.8	56.00	46.00	-29.40	-26.20
10.03	20.1	6.1	0	20.1	6.1	60.00	50.00	-39.90	-43.90
19.06	21.3	11.6	0	21.3	11.6	60.00	50.00	-38.70	-38.40
24.19	38.6	28.5	0	38.6	28.5	60.00	50.00	-21.40	-21.50
27.41	41.6	31.2	0	41.6	31.2	60.00	50.00	-18.40	-18.80
29.58	37.3	24.9	0	37.3	24.9	60.00	50.00	-22.70	-25.10

EMC VERIFICATION No. 3109178

EQUIPMENT UNDER TEST

Type of equipment: Blender

Type/Models: MX1000XT, MX1050XT MX1100XT, MX1200XT, MX1300XT, and MX1500XT

Manufacturer: Waring Products Division of Conair Corp.

Tested by request of: Mr. Dan Sanders

STANDARDS:

EN61000-6-3:2001 – Emission standard for residential, commercial and light-industrial environments

EN61000-6-1: 2001 – Immunity for residential, commercial and light-industrial environments

TEST REPORT No. 3109178NYM-005

SUMMARY OF RESULTS:
We confirm that the product tested, and our review of the above numbered report, without reasonable doubt will fulfill the requirements concerning electromagnetic compatibility according to the above mentioned standards harmonized with the EMC Directive 89/336/EEC//93/68/EEC.

EMC Department
Date of Issue:12/20/2006

Signature: W Wack ____________ William Wack, EMC Sr. Project Engineer